**Name of Work : IMPROVEMENT OF CC ROADS, DRAINS AND OTHER WORKS AT GOWDIKE HOOLA (JODIDHAR NARASIMHAIAH LAYOUT) IN WARD NO 14**

**DASARAHALLI DIVISION** | **T DASARAHALLI SUB DIVISION**

**Estimate Cost:-100.00 Lakhs,** **JOB CODE: 014-20-000112**

**Head of Account**:- P-1878 18per (BHAGYAJYOTHI,SOORU/NEERU YOJANE AND GENERAL)(54 LAKHS/NEW WARDS)

**Agency:**-M/S TECHNICAL MANAGER(WEST),K.R.I.D.L, NO280,59TH CROSS,17TH MAIN ROAD,3RD Y BLOCK RAJAJI NAGARA,

**Agreement No:-** : EE/DD/AGR/02/2020-21 Date-13-04-2020

## DETAILED MEASUREMENTS

**Recorded on:-** 13/04/20

### Pre measurements

| BOQ Item No | Description Of Item of work | Nos | Measurements Length | Breath | | | Depth | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 4 5 | 6 | 7 | | | 8 | 9 | 10 | 11 |
| 1 | KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 | | | | | | | | | |
| | ROAD FORMATION | | | | | | | | | |
| | 9TH MAIN ROAD | 1 | 19.00 | 4.15 | + | 4.60 | 0.150 | 12.469 | | |
| | | | | 2 | | | | | | |
| | | 1 | 30.00 | 4.60 | + | 3.70 | 0.150 | 18.675 | | |
| | | | | 2 | | | | | | |
| | | 1 | 30.00 | 3.70 | + | 3.70 | 0.150 | 16.650 | | |
| | | | | 2 | | | | | | |
| | | 1 | 30.00 | 3.70 | + | 3.50 | 0.150 | 16.200 | | |
| | | | | 2 | | | | | | |
| | | 1 | 27.60 | 3.00 | + | 3.30 | 0.150 | 13.041 | | |
| | | | | 2 | | | | | | |
| | 9TH MAIN ROAD-1ST CROSS R/S | 1 | 42.00 | 2.60 | + | 2.00 | 0.150 | 14.490 | | |
| | | | | 2 | | | | | | |
| | 9TH MAIN ROAD-2ND CROSS R/S | 1 | 39.00 | 2.50 | + | 2.30 | 0.150 | 14.040 | | |
| | | | | 2 | | | | | | |
| | 9TH MAIN ROAD-3RD CROSS R/S | 1 | 36.00 | 2.80 | + | 2.90 | 0.150 | 15.390 | | |
| | | | | 2 | | | | | | |
| | 9TH MAIN ROAD-4TH CROSS R/S | 1 | 40.00 | 3.50 | + | 2.95 | 0.150 | 19.350 | | |
| | | | | 2 | | | | | | |
| | 9TH MAIN ROAD-5TH CROSS R/S | 1 | 43.00 | 2.45 | + | 2.50 | 0.150 | 15.964 | | |
| | | | | 2 | | | | | | |
| | 9TH MAIN ROAD-6TH CROSS R/S | 1 | 38.00 | 2.90 | + | 2.00 | 0.150 | 13.965 | | |
| | | | | 2 | | | | | | |
| | LINK ROAD-1 | 1 | 30.00 | 4.20 | + | 4.80 | 0.150 | 20.250 | | |
| | | | | 2 | | | | | | |
| | | 1 | 30.00 | 4.80 | + | 3.90 | 0.150 | 19.575 | | |
| | | | | 2 | | | | | | |
| | | 1 | 38.00 | 3.90 | + | 4.15 | 0.150 | 22.943 | | |

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EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON

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| BOQ Item No | Description Of Item of work | Nos | | Measurements Length | Breath | | Depth | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 |
| | | | | | 2 | | | | | |
| | LINK ROAD-2 | 1 | | 30.00 | 4.40 | + 4.45 | 0.150 | 19.913 | | |
| | | | | | 2 | | | | | |
| | | 1 | | 30.00 | 4.45 | + 4.45 | 0.150 | 20.025 | | |
| | | | | | 2 | | | | | |
| | | 1 | | 34.00 | 4.45 | + 4.45 | 0.150 | 22.695 | | |
| | | | | | 2 | | | | | |
| | LINK ROAD-3 | 1 | | 33.50 | 5.40 | + 5.20 | 0.150 | 26.633 | | |
| | | | | | 2 | | | | | |
| | DEDUCT LENGTH CUT BY BWSSB | | | | | | | | | |
| | | -1 | | 600.10 | 0.20 | | 0.15 | -18.003 | | |
| | | | | Total Qty | | | | 304.263 | 304.263 | Cum |
| 2 | Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. Rubble stone masonry in cement mortar. MORTH Specification No. 202 | | | | | | | | | |
| | 9TH MAIN DRAIN -RIGHT SIDE | | | | | | | | | |
| | 9TH MAIN DRAIN -1 | 1 | 2 | 18.80 | 0.15 | | 0.75 | 4.230 | | |
| | | 1 | 1 | 18.80 | 0.90 | | 0.10 | 1.692 | | |
| | 9TH MAIN DRAIN -2 | 1 | 2 | 20.00 | 0.15 | | 0.75 | 4.500 | | |
| | | 1 | 1 | 20.00 | 0.90 | | 0.10 | 1.800 | | |
| | 9TH MAIN DRAIN -3 | 1 | 2 | 20.00 | 0.15 | | 0.75 | 4.500 | | |
| | | 1 | 1 | 20.00 | 0.90 | | 0.10 | 1.800 | | |
| | 9TH MAIN DRAIN -4 | 1 | 2 | 18.60 | 0.15 | | 0.75 | 4.185 | | |
| | | 1 | 1 | 20.00 | 0.90 | | 0.10 | 1.800 | | |
| | 9TH MAIN DRAIN -5 | 1 | 2 | 19.00 | 0.15 | | 0.75 | 4.275 | | |
| | | 1 | 1 | 19.00 | 0.90 | | 0.10 | 1.710 | | |
| | 9TH MAIN DRAIN -6 | 1 | 2 | 25.00 | 0.15 | | 0.75 | 5.625 | | |
| | | 1 | 1 | 25.00 | 0.90 | | 0.10 | 2.250 | | |
| | 9TH MAIN DRAIN -LEFT SIDE | | | | | | | | | |
| | 9TH MAIN DRAIN -1 | 1 | 2 | 35.00 | 0.15 | | 0.75 | 7.875 | | |
| | | 1 | 1 | 35.00 | 0.90 | | 0.10 | 3.150 | | |
| | 9TH MAIN DRAIN -2 | 1 | 2 | 18.00 | 0.15 | | 0.75 | 4.050 | | |
| | | 1 | 1 | 18.00 | 0.90 | | 0.10 | 1.620 | | |
| | 9TH MAIN DRAIN -3 | 1 | 2 | 19.00 | 0.15 | | 0.75 | 4.275 | | |
| | | 1 | 1 | 19.00 | 0.90 | | 0.10 | 1.710 | | |
| | 9TH MAIN DRAIN -4 | 1 | 2 | 17.00 | 0.15 | | 0.75 | 3.825 | | |
| | | 1 | 1 | 17.00 | 0.90 | | 0.10 | 1.530 | | |
| | 9TH MAIN DRAIN -5 | 1 | 2 | 21.00 | 0.15 | | 0.75 | 4.725 | | |
| | | 1 | 1 | 21.00 | 0.90 | | 0.10 | 1.890 | | |
| | 9TH MAIN DRAIN -1ST CROSS | | | | | | | | | |
| | RS | 2 | 1 | 42.00 | 0.15 | | 0.75 | 9.450 | | |
| | | 1 | 1 | 42.00 | 0.90 | | 0.10 | 3.780 | | |
| | LS | 2 | 1 | 42.00 | 0.15 | | 0.75 | 9.450 | | |
| | | 1 | 1 | 42.00 | 0.90 | | 0.10 | 3.780 | | |
| | 9TH MAIN DRAIN -2ND CROSS | | | | | | | | | |
| | RS | 2 | 1 | 39.00 | 0.15 | | 0.75 | 8.775 | | |

Checked upto 18/4

Checked upto 18/4

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E.E. (D.D.)

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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| BOQ Item No | Description Of Item of work | Nos | | Measurements | | | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Length | Breath | Depth | | | |
| 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | | 1 | 1 | 39.00 | 0.90 | 0.10 | 3.510 | | |
| | LS | 2 | 1 | 39.00 | 0.15 | 0.75 | 8.775 | | |
| | | 1 | 1 | 39.00 | 0.90 | 0.10 | 3.510 | | |
| | 9TH MAIN DRAIN -3RD CROSS | | | | | | | | |
| | RS | 2 | 1 | 36.00 | 0.15 | 0.75 | 8.100 | | |
| | | 1 | 1 | 36.00 | 0.90 | 0.10 | 3.240 | | |
| | LS | 2 | 1 | 36.00 | 0.15 | 0.75 | 8.100 | | |
| | | 1 | 1 | 36.00 | 0.90 | 0.10 | 3.240 | | |
| | 9TH MAIN DRAIN -4TH CROSS | | | | | | | | |
| | RS | 2 | 1 | 40.00 | 0.15 | 0.75 | 9.000 | | |
| | | 1 | 1 | 40.00 | 0.90 | 0.10 | 3.600 | | |
| | 9TH MAIN DRAIN -5TH CROSS | | | | | | | | |
| | RS | 2 | 1 | 43.00 | 0.15 | 0.75 | 9.675 | | |
| | | 1 | 1 | 43.00 | 0.90 | 0.10 | 3.870 | | |
| | | 2 | 1 | 43.00 | 0.15 | 0.75 | 9.675 | | |
| | | 1 | 1 | 43.00 | 0.90 | 0.10 | 3.870 | | |
| | 9TH MAIN DRAIN -6TH CROSS | | | | | | | | |
| | RS | 2 | 1 | 38.00 | 0.15 | 0.75 | 8.550 | | |
| | | 1 | 1 | 38.00 | 0.90 | 0.10 | 3.420 | | |
| | LS | 2 | 1 | 38.00 | 0.15 | 0.75 | 8.550 | | |
| | | 1 | 1 | 38.00 | 0.90 | 0.10 | 3.420 | | |
| | | | | Total Qty | | | 210.357 | 210.357 | Cum |

Checked by AE 18/4

Assistant Engineer-14

18/04/20

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 01

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP

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| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 9TH MAIN DRAIN -5 | 1 | 1 | 18.60 | 1.10 | 0.45 | 9.207 | | |
| 9TH MAIN DRAIN -6 | 1 | 1 | 19.00 | 1.10 | 0.45 | 9.405 | | |
| 9TH MAIN DRAIN -LEFT SIDE | | | | | | | | |
| 9TH MAIN DRAIN -1 | 1 | 1 | 35.00 | 1.10 | 0.45 | 17.325 | | |
| 9TH MAIN DRAIN -2 | 1 | 1 | 18.00 | 1.10 | 0.45 | 8.910 | | |
| 9TH MAIN DRAIN -3 | 1 | 1 | 19.00 | 1.10 | 0.45 | 9.405 | | |
| 9TH MAIN DRAIN -4 | 1 | 1 | 17.00 | 1.10 | 0.45 | 8.415 | | |
| 9TH MAIN DRAIN -5 | 1 | 1 | 21.00 | 1.10 | 0.45 | 10.395 | | |
| 9TH MAIN DRAIN -1ST CROSS | | | | | | | | |
| RS | 1 | 1 | 42.00 | 1.10 | 0.45 | 20.790 | | |
| LS | 1 | 1 | 42.00 | 1.10 | 0.45 | 20.790 | | |
| 9TH MAIN DRAIN -2ND CROSS | | | | | | | | |
| RS | 1 | 1 | 39.00 | 1.10 | 0.45 | 19.305 | | |
| LS | 1 | 1 | 39.00 | 1.10 | 0.45 | 19.305 | | |
| 9TH MAIN DRAIN -3RD CROSS | | | | | | | | |
| RS | 1 | 1 | 36.00 | 1.10 | 0.45 | 17.820 | | |
| LS | 1 | 1 | 36.00 | 1.10 | 0.45 | 17.820 | | |
| 9TH MAIN DRAIN -4TH CROSS | | | | | | | | |
| RS | 1 | 1 | 40.00 | 1.10 | 0.45 | 19.800 | | |
| 9TH MAIN DRAIN -5TH CROSS | | | | | | | | |
| RS | 1 | 1 | 43.00 | 1.10 | 0.45 | 21.285 | | |
| LS | 1 | 1 | 43.00 | 1.10 | 0.45 | 21.285 | | |
| 9TH MAIN DRAIN -6TH CROSS | | | | | | | | |
| RS | 1 | 1 | 38.00 | 1.10 | 0.45 | 18.810 | | |
| LS | 1 | 1 | 38.00 | 1.10 | 0.45 | 18.810 | | |
| DEDUCTION DUE TO I NO 02 P NO-03 | | | | | | -210.357 | | |
| | | | Total Qty | | | 1083.636 | 1083.636 | Cum |

Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 9TH MAIN DRAIN -RIGHT SIDE | | | | | | | | |
| 9TH MAIN DRAIN -1 | 1 | 1 | 18.80 | 1.10 | 0.15 | 3.102 | | |
| 9TH MAIN DRAIN -2 | 1 | 1 | 20.00 | 1.10 | 0.15 | 3.300 | | |
| 9TH MAIN DRAIN -3 | 1 | 1 | 20.00 | 1.10 | 0.15 | 3.300 | | |
| 9TH MAIN DRAIN -4 | 1 | 1 | 18.60 | 1.10 | 0.15 | 3.069 | | |
| 9TH MAIN DRAIN -5 | 1 | 1 | 19.00 | 1.10 | 0.15 | 3.135 | | |
| 9TH MAIN DRAIN -6 | 1 | 1 | 25.00 | 1.10 | 0.15 | 4.125 | | |
| 9TH MAIN DRAIN -LEFT SIDE | | | | | | | | |
| 9TH MAIN DRAIN -1 | 1 | 1 | 35.00 | 1.10 | 0.15 | 5.775 | | |
| 9TH MAIN DRAIN -2 | 1 | 1 | 18.00 | 1.10 | 0.15 | 2.970 | | |
| 9TH MAIN DRAIN -3 | 1 | 1 | 19.00 | 1.10 | 0.15 | 3.135 | | |
| 9TH MAIN DRAIN -4 | 1 | 1 | 17.00 | 1.10 | 0.15 | 2.805 | | |
| 9TH MAIN DRAIN -5 | 1 | 1 | 21.00 | 1.10 | 0.15 | 3.465 | | |
| 9TH MAIN DRAIN -1ST CROSS | | | | | | | | |
| RS | 1 | 1 | 42.00 | 1.10 | 0.15 | 6.930 | | |

E.E. (D.D.)

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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| BOQ Item No | Description Of Item of work | Nos | | Measurements | | | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Length | Breath | Depth | | | |
| 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | LS | 1 | 1 | 42.00 | 1.10 | 0.15 | 6.930 | | |
| | 9TH MAIN DRAIN -2ND CROSS | | | | | | | | |
| | RS | 1 | 1 | 39.00 | 1.10 | 0.15 | 6.435 | | |
| | LS | 1 | 1 | 39.00 | 1.10 | 0.15 | 6.435 | | |
| | 9TH MAIN DRAIN -3RD CROSS | | | | | | | | |
| | RS | 1 | 1 | 36.00 | 1.10 | 0.15 | 5.940 | | |
| | LS | 1 | 1 | 36.00 | 1.10 | 0.15 | 5.940 | | |
| | 9TH MAIN DRAIN -4TH CROSS | | | | | | | | |
| | RS | 1 | 1 | 40.00 | 1.10 | 0.15 | 6.600 | | |
| | 9TH MAIN DRAIN -5TH CROSS | | | | | | | | |
| | RS | 1 | 1 | 43.00 | 1.10 | 0.15 | 7.095 | | |
| | LS | 1 | 1 | 43.00 | 1.10 | 0.15 | 7.095 | | |
| | 9TH MAIN DRAIN -6TH CROSS | | | | | | | | |
| | RS | 1 | 1 | 38.00 | 1.10 | 0.15 | 6.270 | | |
| | LS | 1 | 1 | 38.00 | 1.10 | 0.15 | 6.270 | | |
| | | | | Total Qty | | | 110.121 | 110.121 | Cum |
| 15 | Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road ITEM no. 17.4 , KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specification | | | | | | | | |
| | ADD INO-01 P NO: 02 | | | | | | 304.263 | | |
| | ADD INO-02 P NO: 3 | | | | | | 210.357 | | |
| | ADD INO-03 P NO: 05 | | | | | | 1083.636 | | |
| | | | | Total Qty | | | 1598.256 | 1598.256 | Cum |

Assistant Engineer-
14

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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| BOQ Item No | Description Of Item of work | Nos | Measurements: Length | Breath | Depth | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 4 \| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| measurement continued on:- 4\|5\|20 | | | | | | | | |
| 5 | Providing and laying palin / reinforced cement concrete for side drain using M20 nominal mix conncrete with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.43cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, well compacted for walls and bottom including centering,shuttering, cost of materials,HOM of machinery, curing etc complete excluding cost of steel as per MORTH Specification No. 1500,1700,2200 Including cost of materials, labour, HOM complete as per specifications wall & botton thickness 15cm | | | | | | | | |
| | 9TH MAIN DRAIN -RIGHT SIDE | | | | | | | |
| | 9TH MAIN DRAIN -1 | 1 | 1 | 18.80 | 0.75 | 0.15 | 2.115 | |
| | 9TH MAIN DRAIN -2 | 1 | 1 | 20.00 | 0.75 | 0.15 | 2.250 | |
| | 9TH MAIN DRAIN -3 | 1 | 1 | 20.00 | 0.75 | 0.15 | 2.250 | |
| | 9TH MAIN DRAIN -4 | 1 | 1 | 18.60 | 0.75 | 0.15 | 2.093 | |
| | 9TH MAIN DRAIN -5 | 1 | 1 | 19.00 | 0.60 | 0.15 | 1.710 | |
| | 9TH MAIN DRAIN -6 | 1 | 1 | 25.00 | 0.60 | 0.15 | 2.250 | |
| | 9TH MAIN DRAIN -LEFT SIDE | | | | | | | |
| | 9TH MAIN DRAIN -1 | 1 | 1 | 35.00 | 0.75 | 0.15 | 3.938 | |
| | 9TH MAIN DRAIN -2 | 1 | 1 | 18.00 | 0.90 | 0.15 | 2.430 | |
| | 9TH MAIN DRAIN -3 | 1 | 1 | 19.00 | 0.90 | 0.15 | 2.565 | |
| | 9TH MAIN DRAIN -4 | 1 | 1 | 17.00 | 0.90 | 0.15 | 2.295 | |
| | 9TH MAIN DRAIN -5 | 1 | 1 | 21.00 | 0.90 | 0.15 | 2.835 | |
| | 9TH MAIN DRAIN -1ST CROSS | | | | | | | |
| | RS | 1 | 1 | 42.00 | 0.75 | 0.15 | 4.725 | |
| | LS | 1 | 1 | 42.00 | 0.90 | 0.15 | 5.670 | |
| | 9TH MAIN DRAIN -2ND CROSS | | | | | | | |
| | RS | 1 | 1 | 39.00 | 0.75 | 0.15 | 4.388 | |
| | LS | 1 | 1 | 39.00 | 0.75 | 0.15 | 4.388 | |
| | 9TH MAIN DRAIN -3RD CROSS | | | | | | | |
| | RS | 1 | 1 | 36.00 | 0.75 | 0.15 | 4.050 | |
| | LS | 1 | 1 | 36.00 | 0.75 | 0.15 | 4.050 | |
| | 9TH MAIN DRAIN -4TH CROSS | | | | | | | |
| | RS | 1 | 1 | 40.00 | 0.75 | 0.15 | 4.500 | |
| | 9TH MAIN DRAIN -5TH CROSS | | | | | | | |
| | RS | 1 | 1 | 43.00 | 0.75 | 0.15 | 4.838 | |
| | LS | 1 | 1 | 43.00 | 0.75 | 0.15 | 4.838 | |
| | 9TH MAIN DRAIN -6TH CROSS | | | | | | | |
| | RS | 1 | 1 | 38.00 | 0.75 | 0.15 | 4.275 | |
| | LS | 1 | 1 | 38.00 | 0.45 | 0.15 | 2.565 | |
| | Total Qty | | | | | | 75.015 | 75.015 Cum |

Checked & Verified

E.E. (D.D.)

Assistant Engineer- 14

4\|5\|20

Assistant Executive Engineer
T.Dasarahalli Sub- Division
BBMP

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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measurement continued on:- 6/5/22

| 6 | KSRRB M2200-6. Supplying, fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500 (Pno218/28.8.2) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SL NO | PARTICULARS | NO | LENGTH | CONSTANT | QTY | | | |
| | 9TH MAIN DRAIN -RIGHT SIDE | | | | | | | |
| | 9TH MAIN DRAIN -1 | | | | | | | |
| 1 | VERTICAL U BAR | 140 | 2.11 | 0.620 | 183.148 | | | |
| 2 | STRAIGHT BAR | 19 | 18.80 | 0.620 | 219.133 | | | |
| | 9TH MAIN DRAIN -2 | | | | | | | |
| 1 | VERTICAL U BAR | 165 | 2.11 | 0.620 | 215.853 | | | |
| 2 | STRAIGHT BAR | 20 | 20.00 | 0.620 | 248.000 | | | |
| | 9TH MAIN DRAIN -3 | | | | | | | |
| 1 | VERTICAL U BAR | 165 | 2.11 | 0.620 | 215.853 | | | |
| 2 | STRAIGHT BAR | 20 | 20.00 | 0.620 | 248.000 | | | |
| | 9TH MAIN DRAIN -4 | | | | | | | |
| 1 | VERTICAL U BAR | 137 | 2.11 | 0.620 | 179.223 | | | |
| 2 | STRAIGHT BAR | 19 | 18.60 | 0.620 | 216.802 | | | |
| | 9TH MAIN DRAIN -5 | | | | | | | |
| 1 | VERTICAL U BAR | 142 | 2.11 | 0.620 | 185.764 | | | |
| 2 | STRAIGHT BAR | 19 | 19.00 | 0.620 | 221.464 | | | |
| | 9TH MAIN DRAIN -6 | | | | | | | |
| 1 | VERTICAL U BAR | 170 | 2.11 | 0.620 | 222.394 | | | |
| 2 | STRAIGHT BAR | 19 | 25.00 | 0.620 | 291.400 | | | |
| | 9TH MAIN DRAIN -LIFT SIDE | | | | | | | |
| | 9TH MAIN DRAIN -1 | | | | | | | |
| 1 | VERTICAL U BAR | 233 | 2.11 | 0.620 | 304.811 | | | |
| 2 | STRAIGHT BAR | 19 | 35.00 | 0.620 | 407.960 | | | |
| | 9TH MAIN DRAIN -2 | | | | | | | |
| 1 | VERTICAL U BAR | 120 | 2.11 | 0.620 | 156.984 | | | |
| 2 | STRAIGHT BAR | 20 | 18.00 | 0.620 | 223.200 | | | |
| | 9TH MAIN DRAIN -3 | | | | | | | |
| 1 | VERTICAL U BAR | 126 | 2.11 | 0.620 | 164.833 | | | |
| 2 | STRAIGHT BAR | 20 | 19.00 | 0.620 | 235.600 | | | |
| | 9TH MAIN DRAIN -4 | | | | | | | |
| 1 | VERTICAL U BAR | 113 | 2.11 | 0.620 | 147.827 | | | |
| 2 | STRAIGHT BAR | 19 | 17.00 | 0.620 | 198.152 | | | |

Checked & Verified by

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಿ.ಪಂ.ಎಂ.ಪಿ.
ಬೆಂಗಳೂರು-560073.

- 8 -

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| BOQ Item No | Description Of Item of work | Nos | | Measurements | | | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Length | Breath | Depth | | | |
| 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | 9TH MAIN DRAIN -5 | | | | | | | | |
| 1 | VERTICAL U BAR | | 140 | 2.11 | 0.620 | 183.148 | | | |
| 2 | STRAIGHT BAR | | 19 | 21.00 | 0.620 | 244.776 | | | |
| | 9TH MAIN DRAIN -6 | | | | | | | | |
| 1 | VERTICAL U BAR | | 450 | 2.11 | 0.620 | 588.690 | | | |
| 2 | STRAIGHT BAR | | 19 | 43.00 | 0.620 | 501.208 | | | |
| | 9TH MAIN DRAIN -1ST CROSS-RS | | | | | | | | |
| 1 | VERTICAL U BAR | | 440 | 1.95 | 0.620 | 531.960 | | | |
| 2 | STRAIGHT BAR | | 19 | 42.00 | 0.620 | 489.552 | | | |
| | 9TH MAIN DRAIN -1ST CROSS-LS | | | | | | | | |
| 1 | VERTICAL U BAR | | 380 | 1.95 | 0.620 | 459.420 | | | |
| 2 | STRAIGHT BAR | | 19 | 42.00 | 0.620 | 489.552 | | | |
| | 9TH MAIN DRAIN -2ND CROSS-RS | | | | | | | | |
| 1 | VERTICAL U BAR | | 370 | 1.95 | 0.620 | 447.330 | | | |
| 2 | STRAIGHT BAR | | 19 | 39.00 | 0.620 | 454.584 | | | |
| | 9TH MAIN DRAIN -2ND CROSS-LS | | | | | | | | |
| 1 | VERTICAL U BAR | | 320 | 1.95 | 0.620 | 386.880 | | | |
| 2 | STRAIGHT BAR | | 19 | 39.00 | 0.620 | 454.584 | | | |
| | 9TH MAIN DRAIN -3RD CROSS-RS | | | | | | | | |
| 1 | VERTICAL U BAR | | 320 | 1.95 | 0.620 | 386.880 | | | |
| 2 | STRAIGHT BAR | | 19 | 36.00 | 0.620 | 419.616 | | | |
| | 9TH MAIN DRAIN -3RD CROSS-LS | | | | | | | | |
| 1 | VERTICAL U BAR | | 315 | 1.95 | 0.620 | 380.835 | | | |
| 2 | STRAIGHT BAR | | 19 | 36.00 | 0.620 | 419.616 | | | |
| | 9TH MAIN DRAIN -4TH CROSS-RS | | | | | | | | |
| 1 | VERTICAL U BAR | | 360 | 1.95 | 0.620 | 435.240 | | | |
| 2 | STRAIGHT BAR | | 19 | 40.00 | 0.620 | 466.240 | | | |
| | 9TH MAIN DRAIN -5TH CROSS-RS | | | | | | | | |
| 1 | VERTICAL U BAR | | 350 | 1.95 | 0.620 | 423.150 | | | |
| 2 | STRAIGHT BAR | | 19 | 43.00 | 0.390 | 315.276 | | | |
| | 9TH MAIN DRAIN -5TH CROSS-LS | | | | | | | | |
| 1 | VERTICAL U BAR | | 360 | 1.95 | 0.620 | 435.240 | | | |
| 2 | STRAIGHT BAR | | 19 | 43.00 | 0.390 | 315.276 | | | |
| | 9TH MAIN DRAIN -6TH CROSS-RS | | | | | | | | |
| 1 | VERTICAL U BAR | | 253 | 1.95 | 0.620 | 305.877 | | | |
| 2 | STRAIGHT BAR | | 19 | 38.00 | 0.620 | 442.928 | | | |
| | 9TH MAIN DRAIN -6TH CROSS-LS | | | | | | | | |

EXECUTIVE ENGINEER-4
KRIDL, BEMP DIVISON
BENGALURU-560 010



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| BOQ Item No | Description Of Item of work | Nos | Measurements | | | | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|
| | | | Length | Breath | | Depth | | | |
| 3 | | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 |
| 1 | VERTICAL U BAR | | 253 | 1.95 | 0.620 | 305.877 | | | |
| 1 | STRAIGHT BAR | | 19 | 38.00 | 0.620 | 442.928 | | | |
| 2 | Checked details | | TOTAL QTY IN KGS | | | 15213.064 | | | |
| | | | TOTAL QTY IN TONNES | | | 15.213 | | | |
| | | | TOTAL QTY IN TONNES | | | 15.213 | 15.213 | 15.213 | TONNE |

Assistant Engineer-14
6/12/20

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP
6/12

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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ಟಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಜಿ.ಜಿ.ಎಂ.ಪಿ.
ಬೆಂಗಳೂರು-560073.

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| BOQ Item No | Description Of item of work | Nos | | Measurements Length | Breath | Depth | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | **Measurement continued on:-** 14/5/20 | | | | | | | | |
| 5 | Providing and laying palin / reinforced cement concrete for side drain using M20 nominal mix conncrete with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregetes @ 0.43cum, with super plasticisers @ 3 liters confirming to Is 9103-1999 reafirmed-2008 at machine mixed, well compacted for walls and bottom including centering,shuttering, cost of materials,HOM of machinery, curing etc complete excluding cost of steel as per MORTH Specification No. 1500,1700,2200 including cost of materials, labour, HOM complete as per specifications wall & botton thickness 15cm | | | | | | | | |
| | SIDE WALLS | | | | | | | | |
| | 9TH MAIN DRAIN -RIGHT SIDE | | | | | | | | |
| | 9TH MAIN DRAIN -1 | 2 | 1 | 18.80 | 0.163 | 0.600 | 3.677 | | |
| | 9TH MAIN DRAIN -2 | 2 | 1 | 20.00 | 0.200 | 0.600 | 4.800 | | |
| | 9TH MAIN DRAIN -3 | 2 | 1 | 20.00 | 0.160 | 0.600 | 3.840 | | |
| | 9TH MAIN DRAIN -4 | 2 | 1 | 18.60 | 0.135 | 0.600 | 3.013 | | |
| | 9TH MAIN DRAIN -5 | 2 | 1 | 19.00 | 0.150 | 0.650 | 3.705 | | |
| | 9TH MAIN DRAIN -6 | 2 | 1 | 25.00 | 0.128 | 0.525 | 3.360 | | |
| | 9TH MAIN DRAIN -LEFT SIDE | | | | | | | | |
| | 9TH MAIN DRAIN -1 | 2 | 1 | 35.00 | 0.150 | 0.600 | 6.300 | | |
| | 9TH MAIN DRAIN -2 | 2 | 1 | 18.00 | 0.150 | 0.600 | 3.240 | | |
| | 9TH MAIN DRAIN -3 | 2 | 1 | 19.00 | 0.173 | 0.600 | 3.944 | | |
| | 9TH MAIN DRAIN -4 | 2 | 1 | 17.00 | 0.175 | 0.663 | 3.945 | | |
| | 9TH MAIN DRAIN -5 | 2 | 1 | 21.00 | 0.175 | 0.600 | 4.410 | | |
| | 9TH MAIN DRAIN -1ST CROSS | | | | | | | | |
| | RS | 2 | 1 | 42.00 | 0.150 | 0.600 | 7.560 | | |
| | LS | 2 | 1 | 42.00 | 0.188 | 0.600 | 9.475 | | |
| | 9TH MAIN DRAIN -2ND CROSS | | | | | | | | |
| | RS | 2 | 1 | 39.00 | 0.130 | 0.775 | 7.859 | | |
| | LS | 2 | 1 | 39.00 | 0.188 | 0.600 | 8.798 | | |
| | 9TH MAIN DRAIN -3RD CROSS | | | | | | | | |
| | RS | 2 | 1 | 36.00 | 0.100 | 0.725 | 5.220 | | |
| | LS | 2 | 1 | 36.00 | 0.110 | 0.650 | 5.148 | | |
| | 9TH MAIN DRAIN -4TH CROSS | | | | | | | | |
| | RS | 2 | 1 | 36.00 | 0.150 | 0.875 | 9.450 | | |
| | 9TH MAIN DRAIN -5TH CROSS | | | | | | | | |
| | RS | 2 | 1 | 43.00 | 0.163 | 0.525 | 7.359 | | |
| | LS | 2 | 1 | 43.00 | 0.118 | 0.525 | 5.328 | | |
| | 9TH MAIN DRAIN -6TH CROSS | | | | | | | | |
| | RS | 2 | 1 | 38.00 | 0.100 | 0.500 | 3.800 | | |
| | LS | 2 | 1 | 38.00 | 0.100 | 0.450 | 3.420 | | |
| | ADD QTY FROM I NO 5 PNO7 | | | | | | 75.015 | | |
| | **Total Qty** | | | | | | 192.667 | 192.667 | Cum |

Assistant Engineer-
14/5/20

Assistant Executive Engineer
T. Dasarahalli Sub- Division
BBMP

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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| BOQ Item No | Description of work | | | Length | Breath | Depth | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | **measurement continued on:-** 20/5/20 | | | | | | | | |
| 1 | Providing & fixing Precast RCC slab of 100mm thick for drain in cement concrete 1:1:5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortar including from work lift charges, curing and concrete finished surface on both side | | | | | | | | |
| | 9TH MAIN DRAIN -RIGHT SIDE | | | | | | | | |
| | 9TH MAIN DRAIN -1 | 1 | 1 | 18.80 | 0.75 | | 14.100 | | |
| | 9TH MAIN DRAIN -2 | 1 | 1 | 20.00 | 0.75 | | 15.000 | | |
| | 9TH MAIN DRAIN -3 | 1 | 1 | 20.00 | 0.75 | | 15.000 | | |
| | 9TH MAIN DRAIN -4 | 1 | 1 | 18.60 | 0.75 | | 13.950 | | |
| | 9TH MAIN DRAIN -5 | 1 | 1 | 19.00 | 0.60 | | 11.400 | | |
| | 9TH MAIN DRAIN -6 | 1 | 1 | 25.00 | 0.60 | | 15.000 | | |
| | 9TH MAIN DRAIN -LEFT SIDE | | | | | | | | |
| | 9TH MAIN DRAIN -1 | 1 | 1 | 35.00 | 0.75 | | 26.250 | | |
| | 9TH MAIN DRAIN -2 | 1 | 1 | 18.00 | 0.90 | | 16.200 | | |
| | 9TH MAIN DRAIN -3 | 1 | 1 | 19.00 | 0.90 | | 17.100 | | |
| | 9TH MAIN DRAIN -4 | 1 | 1 | 17.00 | 0.90 | | 15.300 | | |
| | 9TH MAIN DRAIN -5 | 1 | 1 | 21.00 | 0.90 | | 18.900 | | |
| | 9TH MAIN DRAIN -1ST CROSS | | | | | | | | |
| | RS | 1 | 1 | 42.00 | 0.75 | | 31.500 | | |
| | LS | 1 | 1 | 42.00 | 0.90 | | 37.800 | | |
| | 9TH MAIN DRAIN -2ND CROSS | | | | | | | | |
| | RS | 1 | 1 | 39.00 | 0.75 | | 29.250 | | |
| | LS | 1 | 1 | 39.00 | 0.75 | | 29.250 | | |
| | 9TH MAIN DRAIN -3RD CROSS | | | | | | | | |
| | RS | 1 | 1 | 36.00 | 0.75 | | 27.000 | | |
| | LS | 1 | 1 | 36.00 | 0.75 | | 27.000 | | |
| | 9TH MAIN DRAIN -4TH CROSS | | | | | | | | |
| | RS | 1 | 1 | 40.00 | 0.75 | | 30.000 | | |
| | 9TH MAIN DRAIN -5TH CROSS | | | | | | | | |
| | RS | 1 | 1 | 43.00 | 0.75 | | 32.250 | | |
| | LS | 1 | 1 | 43.00 | 0.75 | | 32.250 | | |
| | 9TH MAIN DRAIN -6TH CROSS | | | | | | | | |
| | RS | 1 | 1 | 38.00 | 0.75 | | 28.500 | | |
| | LS | 1 | 1 | 38.00 | 0.45 | | 17.100 | | |
| | **Total Qty** | | | | | | 500.100 | 500.100 | Cum |

Assistant Engineer-14
20/5/20

Assistant Executive Engineer 20/5/20
T.Dasarahalli Sub- Division
BBMP

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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ISO/IEC 17025:2005 Certificate No.: TC-5548

| SOR Item No | Description Of Item of work | Nos | | Measurements Length | Breath | Depth | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| | Measurement continued on:- 27/5/20 | | | | | | | | |
| 8 | Removing and resetting of footpath slab | | | | | | | | |
| | 12TH MAIN | 2 | 1 | 36.50 | 0.60 | | 43.800 | | |
| | LINK ROAD3 LS | 2 | 1 | 46.00 | 0.60 | | 55.200 | | |
| | LINK ROAD 4 LS | 2 | 1 | 30.00 | 0.60 | | 36.000 | | |
| | Total Qty | | | | | | 135.000 | 135.000 | Cum |
| 9 | KSRB 15.2.2 Providing ruled pointing to stone slab pavements with cement mortar 1:3, 20mm deep, after raking joints, including cost of materials, labour, curing complete as per specifications. | | | | | | | | |
| | 12TH MAIN | 2 | 1 | 36.50 | 0.60 | | 43.800 | | |
| | Total Qty | | | | | | 43.800 | 43.800 | Cum |
| 10 | KSRB 5-5.1 Providing one line dressing to granite stone slab / granite stone masonry as per specifications | | | | | | | | |
| | LINK ROAD 3 LS | 2 | 1 | 46.00 | 0.60 | | 55.200 | | |
| | LINK ROAD 4 LS | 2 | 1 | 30.00 | 0.60 | | 36.000 | | |
| | Total Qty | | | | | | 91.200 | 91.200 | Cum |

27/5/20

Assistant Engineer-
14

Assistant Executive Engineer
T.Dasarahalli Sub- Division
BBMP
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EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-550 010

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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | 9 | Total Qty | Unit |
| | | | | | | | | | | 10 | 11 |

Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M30/M30, with 25mm and down size graded granite metal coarse aggregates and fine aggregates , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 4.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| CC ROAD | | | | | | | | | |
| 9TH MAIN ROAD | 1 | 19.00 | 4.15 | + | 4.60 | 0.150 | 12.469 | | |
| | | | | 2 | | | | | |
| | 1 | 30.00 | 4.60 | + | 3.70 | 0.150 | 18.675 | | |
| | | | | 2 | | | | | |
| | 1 | 30.00 | 3.70 | + | 3.70 | 0.150 | 16.650 | | |
| | | | | 2 | | | | | |
| | 1 | 30.00 | 3.70 | + | 3.50 | 0.150 | 16.200 | | |
| | | | | 2 | | | | | |
| | 1 | 27.60 | 3.00 | + | 3.30 | 0.150 | 13.041 | | |
| | | | | 2 | | | | | |
| 9TH MAIN ROAD-1ST CROSS R/S | 1 | 42.00 | 2.60 | + | 2.00 | 0.150 | 14.490 | | |
| | | | | 2 | | | | | |
| 9TH MAIN ROAD-2ND CROSS R/S | 1 | 39.00 | 2.50 | + | 2.30 | 0.150 | 14.040 | | |
| | | | | 2 | | | | | |
| 9TH MAIN ROAD-3RD CROSS R/S | 1 | 36.00 | 2.80 | + | 2.90 | 0.150 | 15.390 | | |
| | | | | 2 | | | | | |
| 9TH MAIN ROAD-4TH CROSS R/S | 1 | 40.00 | 3.50 | + | 2.95 | 0.150 | 19.350 | | |
| | | | | 2 | | | | | |
| 9TH MAIN ROAD-5TH CROSS R/S | 1 | 43.00 | 2.45 | + | 2.50 | 0.150 | 15.964 | | |
| | | | | 2 | | | | | |
| 9TH MAIN ROAD-6TH CROSS R/S | 1 | 38.00 | 2.90 | + | 2.00 | 0.150 | 13.965 | | |
| | | | | 2 | | | | | |
| LINK ROAD-1 | 1 | 30.00 | 4.20 | + | 4.80 | 0.150 | 20.250 | | |
| | | | | 2 | | | | | |
| | 1 | 30.00 | 4.80 | + | 3.90 | 0.150 | 19.575 | | |
| | | | | 2 | | | | | |
| | 1 | 38.00 | 3.90 | + | 4.15 | 0.150 | 22.943 | | |
| | | | | 2 | | | | | |
| LINK ROAD-2 | 1 | 30.00 | 4.40 | + | 4.45 | 0.150 | 19.913 | | |
| | | | | 2 | | | | | |
| | 1 | 30.00 | 4.45 | + | 4.45 | 0.150 | 20.025 | | |
| | | | | 2 | | | | | |
| | 1 | 34.00 | 4.45 | + | 4.45 | 0.150 | 22.695 | | |

- 14 -

EXECUTIVE ENGINEER-1
KRIDL, BBMP DIVISON
BENGALURU-560 010

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| Description Of Item of work | Nos | Length | Breath | | | Depth | Sub Qty | Total Qty | Unit |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| 3 | 4 | 5 | 6 | 7 | | 8 | 9 | 10 | 11 |
| | | | | 2 | | | | | |
| CHANNAKESHAVA NAGAR ROAD-3 | 1 | 33.50 | 5.40 | + | 5.20 | 0.150 | 26.633 | | |
| | | | 2 | | | | | | |
| | | Total Qty | | | | | 322.266 | 322.266 | Cum |

Assistant Engineer-10/6/20
14

Assistant Executive Engineer
T Dasarahalli Sub- Division
BBMP

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ಬಾಗಲಗುಂಟೆ, ಪಿ.ಐ.ಬಿ.ಎಂ.ಪಿ.
ಬೆಂಗಳೂರು-560073.

EXECUTIVE ENGINEER-4
KRIDL, BBMP DIVISON
BENGALURU-560 010

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